NWS CHANGE FORM						1. DATE SUBMITTED	
PART A						5/17/00 Received 6/3/00	
This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B as possible. WSH will complete Part C (implementation details). If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).							
2. ORIGINATOR OFF	FICE 3. SUBM	MITTING AUTHO		4. COGNIZANT TEC	CHNICAL INDIVIDUAL	5. ORIGINATOR TRACKING NUMBER	
APO		Ward Seguin Code: W/APO1		Name: Mathew Perc Routing Code: W/OS Phone: 301-713-176	SD25	TDL_A100067	
6. SYSTEMS AFFECT	5. SYSTEMS AFFECTED BY CHANGE DATA PRODUCTS (Complete Data Products Supplement) 7. WSH TRACKING NUMBER						
☐ ASOS [x AWIPS	☐ CRS		_	ER (specify)	NWS 594	
8. TITLE OF CHANGE Enhance NTCD to support training for the Interactive Forecast Preparation System (IFPS)							
9. TYPE OF CHANGE	E				10. SITES AFFECTED (Att	tach Part B, Page 2, if needed)	
□HARDWARE	X SOFTV			MENTATION ONLY	NWS Training Center (NWSTC) system NTCD		
11. STATEMENT OF	REQUIREMENT, F	PROBLEM, OR D	DEFICIENC	CY OF EXISTING SYST	TEM (Include problem report	reference numbers.)	
As installed, IFPS	cannot support th	ne training mission	on of the	NWSTC for the followi	ing reasons:	ļ	
students pr	reparing 8 indepen	ndent forecasts.			-	t. NWSTC needs to train classes of 16 asses that have been prepared in advance.	
12. KNOWN OR PRO		N (Include source	e and des	escription of new featur	es or data products.)		
13. ALTERNATE SOL	LUTIONS						
N/A							
14. REQUIRED	15. RATIONALE	FOR REQUIRE	D CHANG	GE DATE (Include propo	osed priority, if known.)		
CHANGE DATE May 2000	Need to provide software and support to NWSTC as soon as possible. Instructors are already creating lesson plans.						
CCB/PMC/CMB DECISION							
16. DECISION AUTH	6. DECISION AUTHORITY LEVEL X Fast Track						
17. CCB LEVEL DECISION		☐ AP	☐ APPROVED		SIGNATURE		
		☐ RECOMMEND APPROVAL		DATE SIGNED			
		☐ DISAPPROVED					
		R USE ONLY	Y WHEI	N PMC or NWS (CMB DECISION REQU	JIRED	
18. PMC OR NWS C	MB DECISION	☐ APF	PROVED		SIGNATURE		
		☐ DISAPPROVED		DATE SIGNED			

NWS CHANGE FORM PART B	1. ORIGINATOR 1 TDL_A100067	1. ORIGINATOR TRACKING NUMBER TDL_A100067		
All RC/ECP submissions must also address the following information. Indicate if any apply. State why information is unknown and when it will be available. Attach extreferencing each applicable subject.	2. WSH TRACKING NUMBER NWS 594			
FUNDING INFORM	MATION			
Estimate costs and indicate known sources of funding. (Include travel time, installatime, and software development time when applicable.)	3. SOURCE OF FUNDING	4. TOTAL COST		
5. DEVELOPMENT COSTS (Estimate development costs)	KMOD	AMOUNT		
This cost is associated with Release 5.0 development		BASE	\$0	
6. OPERATIONAL TEST AND EVALUATION COSTS (Estimate test and evaluation $N\!/\!A$	BASE	\$0		
7. PRODUCTION COSTS (Include acquisition, kit proofing, spares, delivery, and doc N/A	KMOD BASE	AMOUNT \$0		
			ΨÜ	
8. COMMUNICATIONS SERVICE/CIRCUITS COSTS (Include installation and recurring N/A		AMOUNT \$0		
IMPLEMENTATION SUPPORT COSTS (Include travel, installation, and administration and testing: Govt (2 TDL engineers' salaries amount for 48 hours)	KMOD BASE	AMOUNT \$		
9A. LIFE CYCLE SUPPORT COSTS (Less communications service/circuits)		KMOD	AMOUNT	
IFPS development organizations will have to maintain IFPTS.		Unknown		
SUPPORTING INFORMATIO Provide detailed information needed to im		۵		
	11. PRODUCTION STATUS		loctonos cueb as	
10. DEVELOPMENT STATUS/SCHEDULE (Major milestones such as Start, Beta Test, and OT&E)	Solicitation, Contract Start			
Development began 3/2000; testing at NWSTC planned for 6/2000.	N/A			
12. IMPLEMENTATION/RETROFIT SCHEDULE	13. FACILITY INFORMATION (Attach facility drawings/plans.)			
N/A	N/A			
14. COMMUNICATIONS INSTALLED (Type required, who will order, and associated hardware required; attach Part B, Page 2, if needed.) N/A	15. COMMUNICATIONS SERVICE/CIRCUITS TO BE REMOVED N/A			
16. REQUIRED CLEARANCES, WAIVERS, AND LICENSES (Include person or organization responsible for obtaining each) N/A	17. COORDINATION OF CHANGE WITH OTHER CHANGES N/A			
18. PHYSICAL ITEMS AND DOCUMENTS AFFECTED (Include part, serial, and document numbers. Attach Part B, Page 2, if needed.) N/A	19. STAFF RESOURCE IMPA maintainers, operators, and Maintenance will be required	managers.)	•	
20. LOGISTICS IMPACTS (Include facilities, maintenance, training, and support equipment impacts.) N/A	21. OPERATIONAL IMPAC and plans.) N/A	TS (Include continuity	and back up needs	
22. ADDITIONAL MAJOR CHANGE ACTIVITIES (Include who will accomplish each	I h of them and staff hours requ	uired.)		

The TDL Engineers will install and test IFPTS with the NWSTC's assistance. Staff hours required are TDL Engineer - 96 hours.

		1.	. ORIGINA	TOR TRACKING NUMBER
NWS CHANGE FORM		TDL_A100067		
PART C		TDL_A 100067		
WSH is responsible for Part C, but submitters may complete sections that would help cla	arify the change	2.	. WSH TR	ACKING NUMBER
requirement or the necessary implementation actions.		_		
		N	IWS 5	94
3. CCB COST EVALUATION				
NWS COST \$ FAA COST \$ DOD COST \$ OTHER AGENCY (SPECIFY)		OTAL COS	Т\$	
4. IMPLEMENTATION DOCUMENTS REQUIRED				
☐ Engineering Modification Note ☐ Software Release Notes	Other	Document	(Specify)_	
ADDITIONAL IMPLEMENTATION INSTRUCTIONS (e.g., Implementation schedule, parts documentation required, and status reporting instructions.) Include documentation, data	shipping instruction input, notification	s, equipmer vehicle, or s	nt disposal	procedures, additional tion step required to verify
completion of the implementation activity. 5. IMPLEMENTATION ACTIVITY REQUIRED	6. REQUIRED	7. RESPO	NSIRI F	8. DOCUMENT OR
3. IWI LEWIENTATION ACTIVITY REQUIRED	COMPLETION DATE	PERSON A		ACTION REQUIRED TO VERIFY COMPLETION
A. Coordinate implementation schedule with NWSTC through SST	TBD May2000	W/OS	SD25	N/A
B. TDL Engineers install and test IFPTS at NWSTC with NWSTC's assistance.	15Jul2000	W/OS	SD25	N/A
C. Report implementation completion using data provided by the TDL Engineers at AWIPS CCB meetings	15 Sep2000	W/OS	SD25	N/A
F. Ensure this change is reported to the Weather Service Headquarters (WSH) through the Engineering Management Reporting System (EMRS) according to the instructions in Engineering Handbook number 4, part 2. Record this RC number (NWS 594) in Block 17a of the EMRS report.	2 Oct 2000	Site I	ESA	
G. Ensure the appropriate WSH management information and configuration management data bases are updated to reflect these changes.	12 Oct 2000	W/OS	O113	
TBD				

(Attachment 1)

Item 12. Known or Proposed Solution

1.0 SOFTWARE CHANGES TO THE BASELINE SYSTEM

0. New software added.

None to AWIPS data servers or workstations. Several scripts will be added to host ifp-ntcd to manage the Interactive Forecast Preparation Training System (IFPTS). The scripts will have 2 purposes:

- 1. Manage test cases for training purposes.
- 2. Reconfigure one or more workstations to run in "IFP Training Mode" (see "Runtime Signature," below).

0. Existing files changed/deleted.

None.

COTS/shareware/freeware.

None.

Databases.

Eight new student databases—ifps_gr1, ifps_gr2, ..., ifps_gr8—will be created on ds—ntcd. These databases will largely contain static data to be read by IFPS applications, they will only be used when students are running IFPS applications in "IFP Training Mode." Each database will contain ~85 tables and consume <50 Mb of the dbspace ifpsdbspace.

External/Internal Interfaces.

None.

Install/Uninstall Instructions.

This will be a one-of-a-kind installation.

3.0 RUNTIME SIGNATURE

Overview.

"IFP Training Mode" will be a special, non-standard configuration of one or more NTCD workstations used to support IFPS training while courses are in session. IFP Training Mode will enable a workstation to support IFPS training for 1 pair of students. Action scripts will migrate selected NTCD workstations from standard AWIPS configuration to IFPS Training Mode and back. When a workstation is in IFP Training Mode, it will be of little use except for IFP training. D2D and other basic AWIPS applications will not run.

Processes.

When a workstation is in IFP Training Mode, students will be able to launch various IFPS applications on that workstation.

Network/Communications.

NFS mounts will be altered radically on each workstation as it enters

IFP Training Mode. They will be restored to their normal settings when the workstation returns to normal AWIPS operations. See the following table:

Local Directory	Normal AWIPS Mount Point	IFP Training Mode Mount Point		
/awips/adapt	ds:/awips/adapt	directories on ifp-ntcd		
/data/fxa	ds:/data/fxa	directories on ifp-ntcd		
/data/adapt	ds:/data/adapt	directories on ifp-ntcd		

Data.

Case archive will reside on ifp-ntcd. More disk space may be needed to support training needs. IFPS workstation log files will reside in a new directory named /log/adapt. This directory will be created on each workstation when entering IFP Training Mode and removed when returning to Normal AWIPS mode.

4.0 PERFORMANCE/SYSTEM RESOURCE USAGE ASSESSMENT

Key Performance Points.

AWIPS workstations in IFP Training Mode will be running IFPS applications. They will <u>not</u> be running D2D and other AWIPS applications at this time. The data server will experience additional load on its Informix relational databases due to the additional IFPS applications. This load, however, will be more than offset by pointing the /data/fxa and /awips/adapt mount points to ifp-ntcd. The net result should be a reduced load for AWIPS hosts.

Disk Space.

None.

Other Resources.

None.

5.0 REFERENCES

Documentation.

In development.

Contact Point.

Matt Peroutka, W/OSD25, Room 10111, SSMC2, Matthew.Peroutka@noaa.gov.

0.0 HARDWARE CHANGE TO THE BASELINE SYSTEM None.